TS8027 2030807

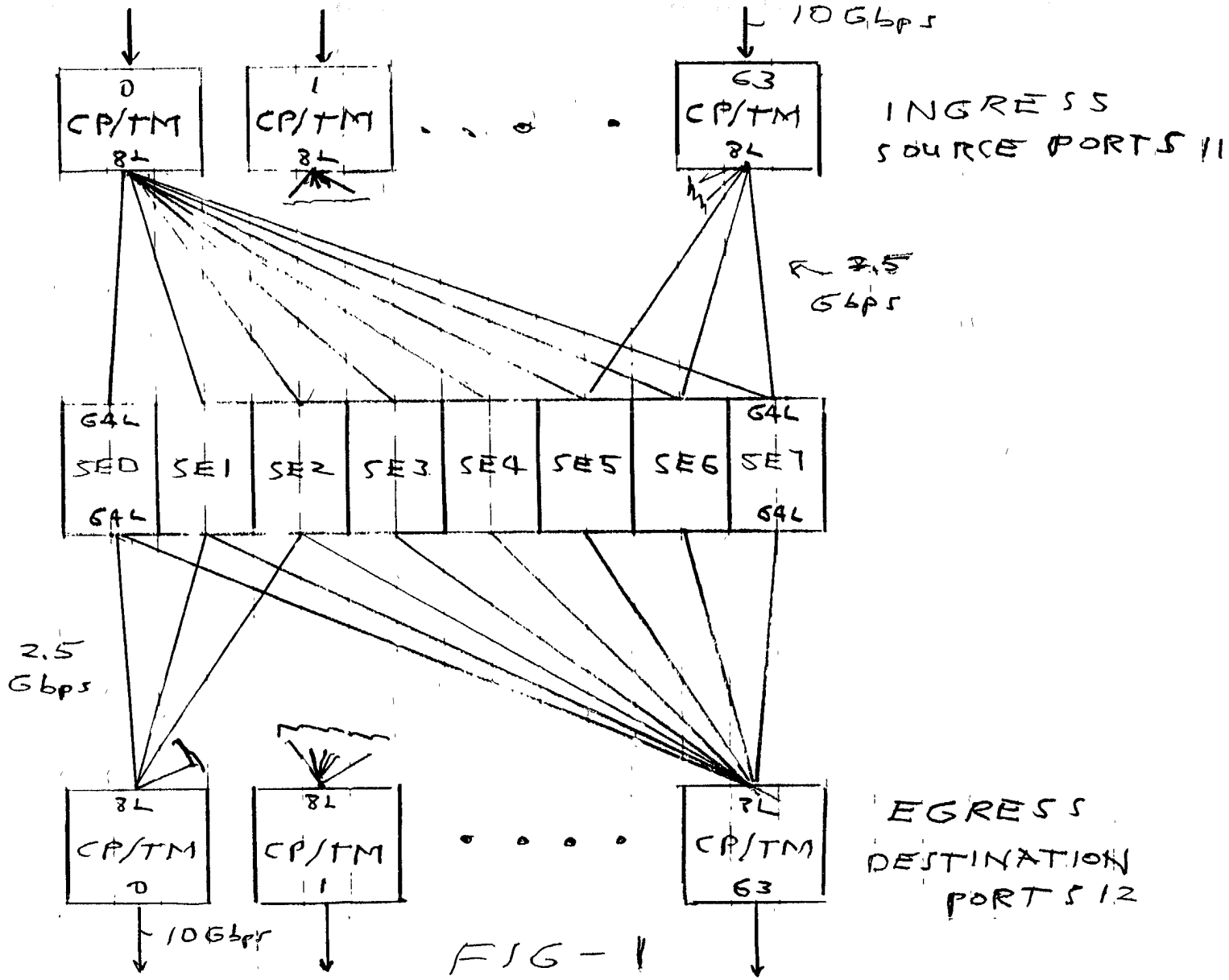

FIG - 1

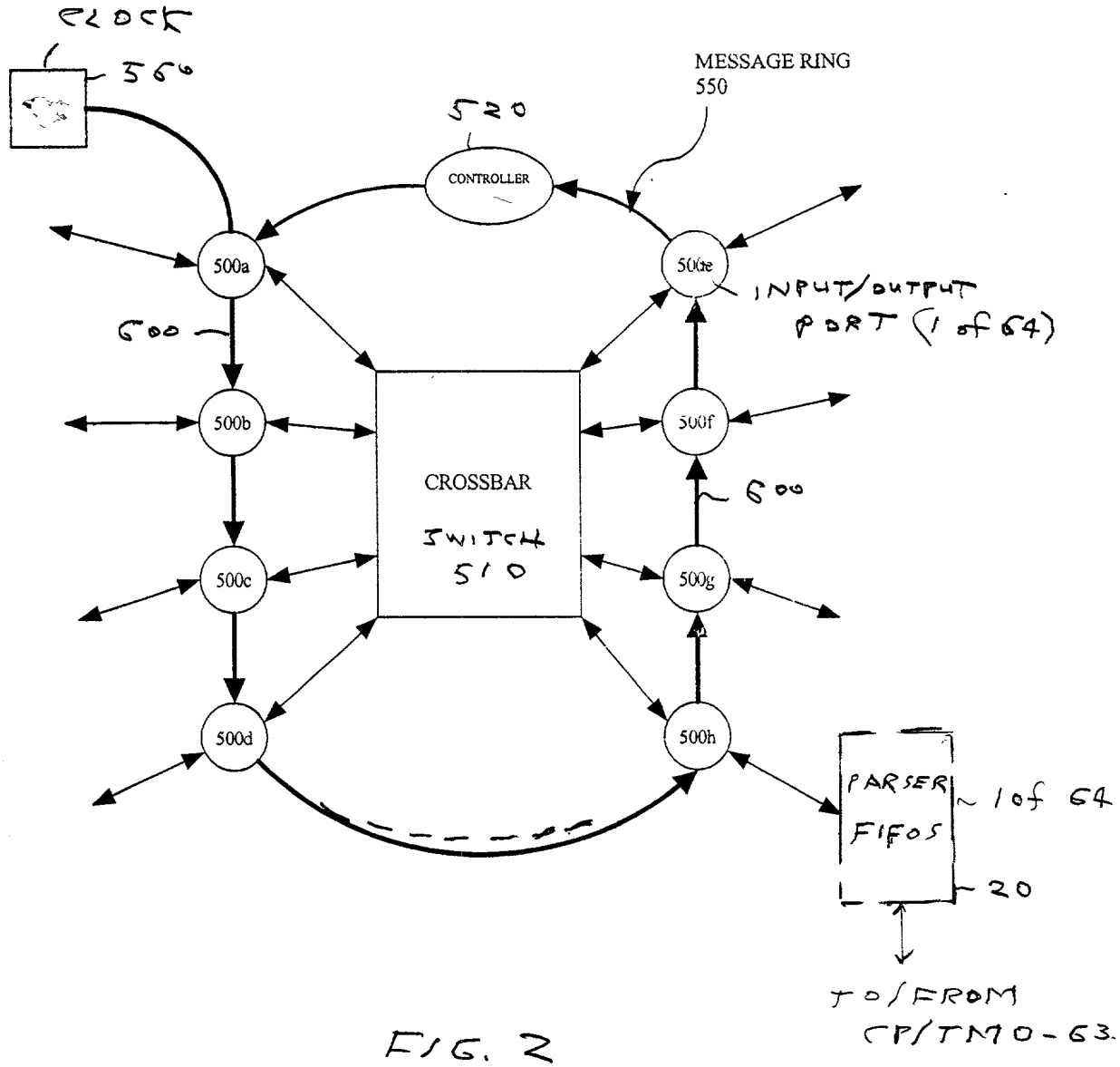
CLOCK
560
MESSAGE RING
550
520
CONTROLLER
500a
500b
500c
500d
500e
500f
500g
500h
INPUT/OUTPUT
PORT (1 of 64)
600
600
CROSSBAR
SWITCH
510
PARSER
FIFOS
1 of 64
20
TO/FROM
CP/TM 0-63

FIG. 2

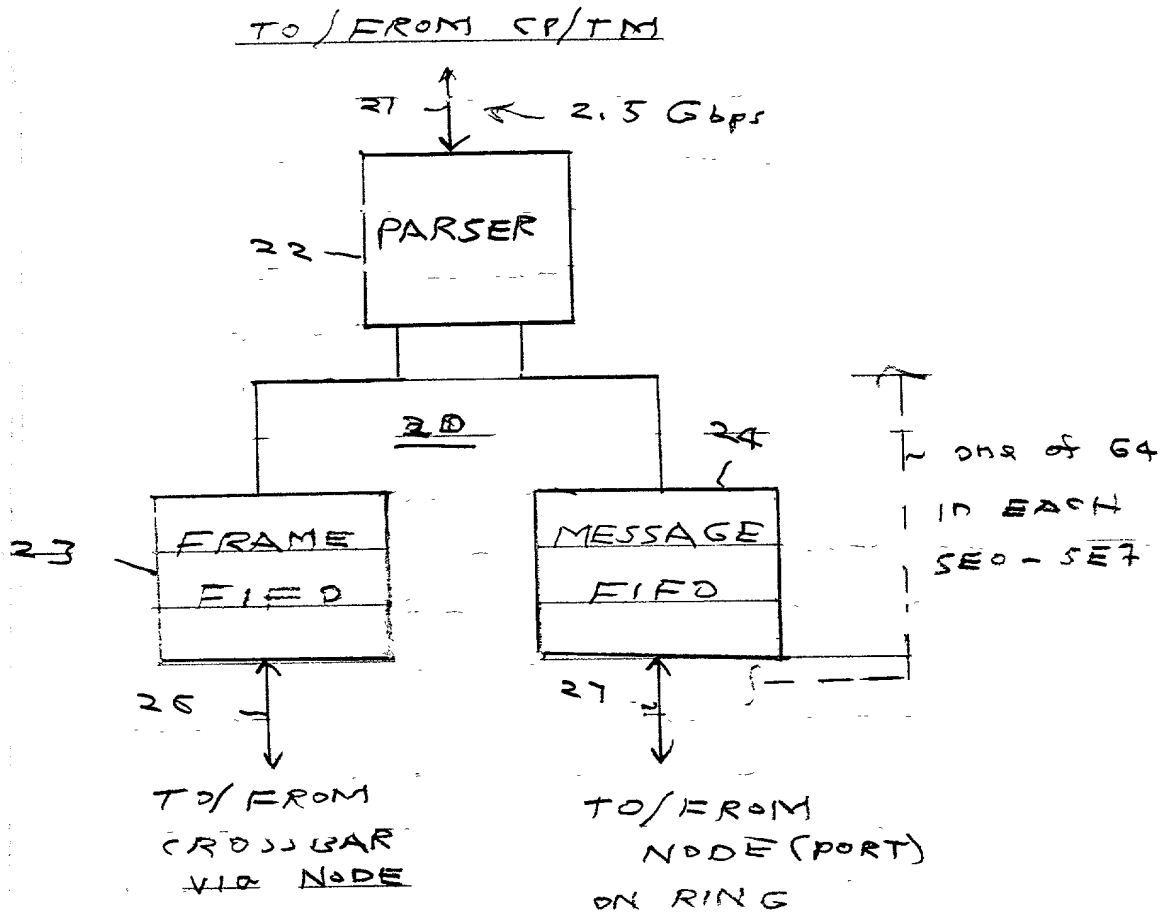
TO/FROM CP/TM
27
2.5 Gbps
22
PARSER
20
24
one of 64
IN EACH
SE0 - SE7
23
FRAME
FIFO
MESSAGE
FIFO
26
27
TO/FROM
CROSSBAR
VIA NODE
TO/FROM
NODE (PORT)
ON RING

FIG - 3

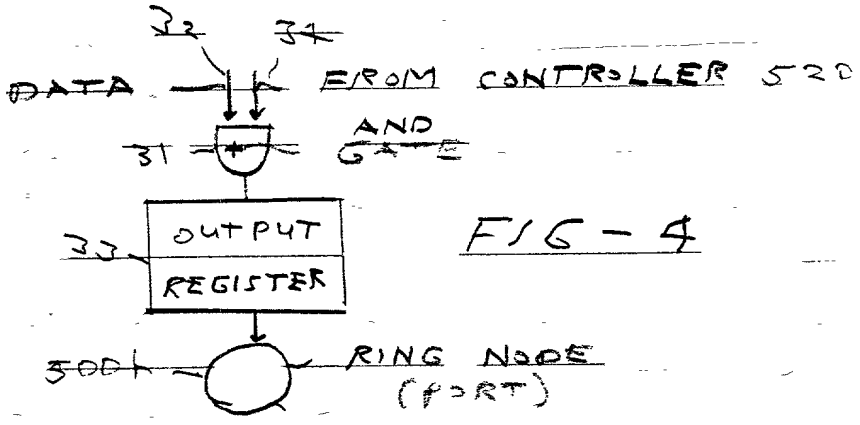
32
34
DATA
E/POM CONTROLLER 520
31
AND
GATE
OUTPUT
REGISTER
33
500
RING NODE
(PORT)

FIG - 4

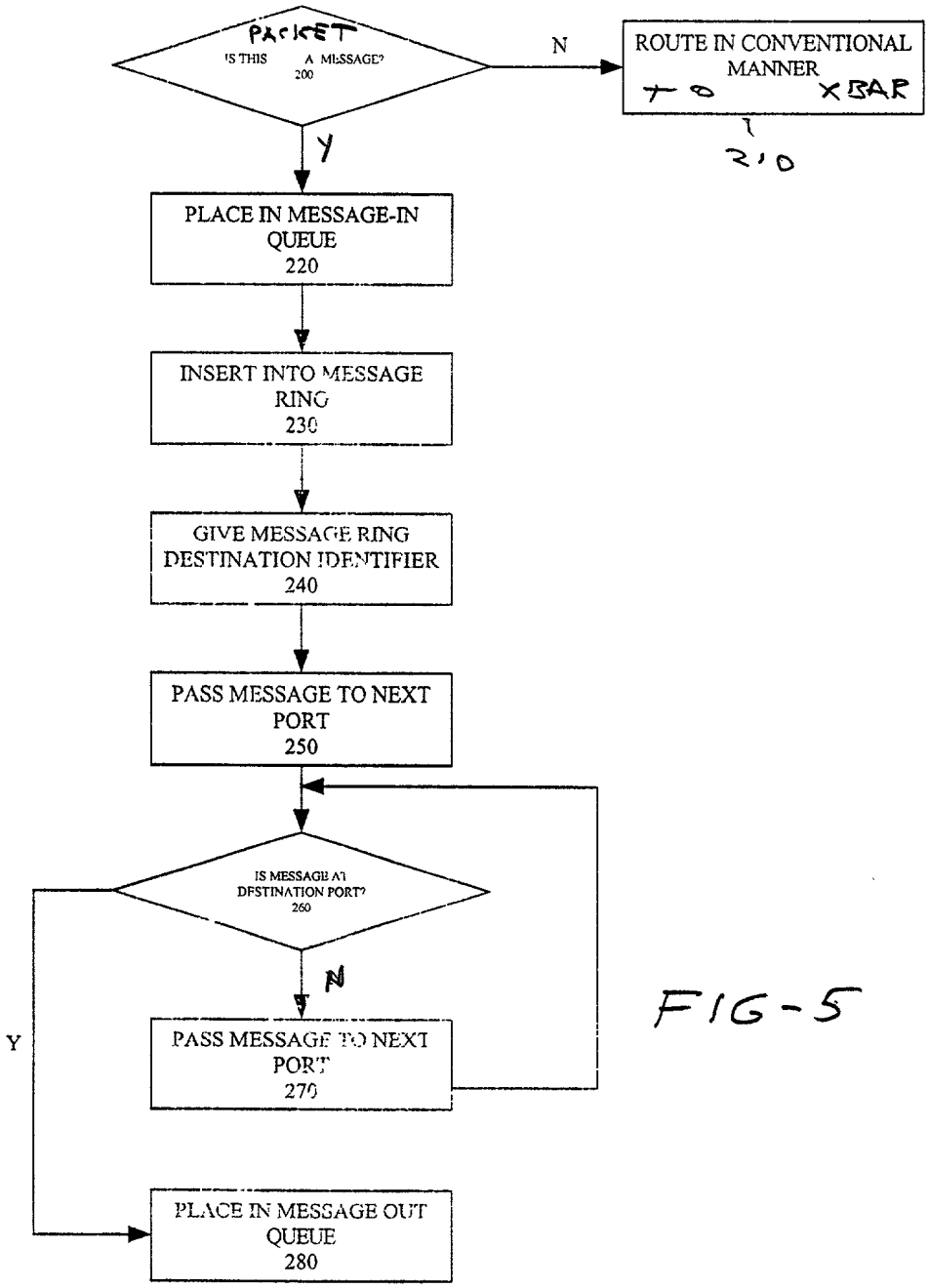
PACKET
IS THIS A MESSAGE?
200
N
ROUTE IN CONVENTIONAL MANNER
TO XBAR
210
Y
PLACE IN MESSAGE-IN QUEUE
220
INSERT INTO MESSAGE RING
230
GIVE MESSAGE RING DESTINATION IDENTIFIER
240
PASS MESSAGE TO NEXT PORT
250
IS MESSAGE AT DESTINATION PORT?
260
N
Y
PASS MESSAGE TO NEXT PORT
270
PLACE IN MESSAGE OUT QUEUE
280

FIG-5